

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2014 Levee Inspection Results****Reclamation District No. 0544 Upper Roberts Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.11
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/10/2014 - 04/10/2014			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	66
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD0544_01_s _ 2012_66				
Action/Comments					

No Photos

LM Start	0.00	Rating **	A	Issue No.	71
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD0544_01_s _ 2013_71				
Action/Comments					

No Photos

LM Start	0.00	Rating **	A	Issue No.	72
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD0544_01_s _ 2013_72				
Action/Comments					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	61
LM End	0.63	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.864359 °	37.864011 °
				-121.324939 °	-121.323562 °
DWR ID	DWR_RD0544_01_f_2013_61				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					

No Photos

LM Start	0.01	Rating **	M	Issue No.	36
LM End	0.01	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.870296 °	37.870296 °
				-121.329826 °	-121.329826 °
DWR ID	DWR_RD0544_01_s_2014_36				
Action/Comments					
Inspector Comments: FS_ID:23851					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Appears abandoned. May need proper abandonment. Pipe exposed on landside slope.					
FIELD_STRUCT_DESC: A 12-inch steel pipe through the levee, 2 feet below levee crown. Appears abandoned. Only visible on landside slope. No pipe and other features visible on waterside.					
FS Date: 10/29/2013					

Photo 1 of 1 : UCIP_3807.jpg



LS view: exposed 12-inch steel pipe on levee slope. Appears abandoned.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.23	Rating **	M	Issue No.	4
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.867590 °	37.867590 °
				-121.327813 °	-121.327813 °
DWR ID	DWR_RD0544_01_s _ 2012_4				
Action/Comments					
Equipment Inspector Comments: Farm equipment and supplies stored at landside toe.					

Photo 1 of 2 : richard_s_20140320_285.jpg



Looking south at equipment along landside toe.

LM Start	0.23	Rating **	M	Issue No.	4 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : richard_s_20140320_286.jpg



Looking north at equipment along landside toe.

LM Start	0.41	Rating **	M	Issue No.	2
LM End	0.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.864958 °	37.864958 °
				-121.327142 °	-121.327142 °
DWR ID	DWR_RD0544_01_s _ 2012_2				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.45	Rating **	M	Issue No.	1
LM End	0.45	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.864713 °	37.864713 °
				-121.326708 °	-121.326708 °
DWR ID	DWR_RD0544_01_f_2013_1				
Action/Comments					
Material					
Inspector Comments: Old broken concrete pipes on waterward berm.					

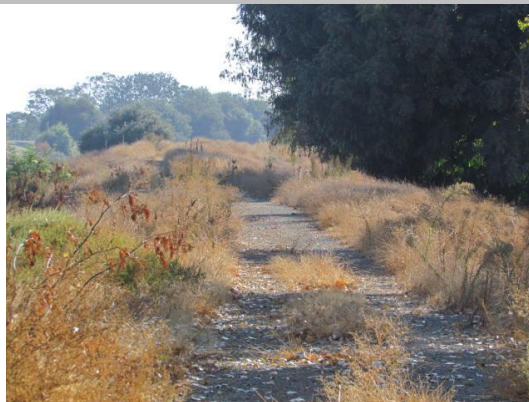
No Photos

LM Start	0.45	Rating **	M	Issue No.	6
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.864713 °	37.864713 °
				-121.326708 °	-121.326708 °
DWR ID	DWR_RD0544_01_f_2013_6				
Action/Comments					
Tree or limb					
Inspector Comments: Broken tree limbs on waterward slope and berm.					

No Photos

LM Start	0.48	Rating **	M	Issue No.	3
LM End	0.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.864578 °	37.863753 °
				-121.326210 °	-121.322835 °
DWR ID	DWR_RD0544_01_s_2012_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : richard_s_20140320_284.jpg



Looking south at overgrown on landward and waterward slopes.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.48	Rating **	M	Issue No.	3 (cont)	
LM End	0.68	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.864578 °	37.863753 °	
				-121.326210 °	-121.322835 °	
DWR ID	DWR_RD0544_01_s _ 2012_3					
Action/Comments						
Remove the wild growth other than native grasses from the levee slopes.						

Photo 2 of 2 : richard_s_20140411_530.jpg



Looking south at typical view of levee. (Spring 2014)

LM Start	0.65	Rating **	M	Issue No.	9
LM End	0.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863935 °	37.863599 °
				-121.323341 °	-121.322442 °
DWR ID	DWR_RD0544_01_s _ 2012_9				
Action/Comments					
Landscaping					

Photo 1 of 1 : richard_s_20140320_289.jpg



Looking south at landscaping on landward slope.

LM Start	0.71	Rating **	M	Issue No.	10
LM End	0.71	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863575 °	37.863575 °
				-121.322367 °	-121.322367 °
DWR ID	DWR_RD0544_01_s _ 2012_10				
Action/Comments					
Landscaping					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.74	Rating **	A/W	Issue No.	12
LM End	0.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.863380 °	37.863380 °
				-121.321897 °	-121.321897 °
DWR ID	DWR_RD0544_01_s_2012_12				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	0.78	Rating **	M	Issue No.	73
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			°	°
				°	°
DWR ID	DWR_RD0544_01_f_2013_73				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.13	Rating **	M	Issue No.	39
LM End	1.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.859423 °	37.859423 °
				-121.318328 °	-121.318328 °
DWR ID	DWR_RD0544_01_s_2012_39				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.14	Rating **	M	Issue No.	15
LM End	1.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.859287 °	37.854252 °
				-121.318333 °	-121.324092 °
DWR ID	DWR_RD0544_01_s _ 2012_15				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.30	Rating **	M	Issue No.	89
LM End	1.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.857321 °	37.857321 °
				-121.319943 °	-121.319943 °
DWR ID	DWR_RD0544_01_s _ 2014_89				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.33	Rating **	M	Issue No.	19
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.857042 °	37.855792 °
				-121.320480 °	-121.321212 °
DWR ID	DWR_RD0544_01_s _ 2012_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.44	Rating **	N	Issue No.	13
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855778 °	37.855778 °
				-121.321206 °	-121.321206 °
DWR ID	DWR_RD0544_01_s _ 2012_13				
Action/Comments					
Tree stumps.					

No Photos

LM Start	1.45	Rating **	N	Issue No.	14
LM End	1.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855583 °	37.855583 °
				-121.321177 °	-121.321177 °
DWR ID	DWR_RD0544_01_s _ 2012_14				
Action/Comments					
Tree stumps.					

No Photos

LM Start	1.49	Rating **	A/W	Issue No.	42
LM End	1.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.855087 °	37.854187 °
				-121.321127 °	-121.321055 °
DWR ID	DWR_RD0544_01_s _ 2012_42				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

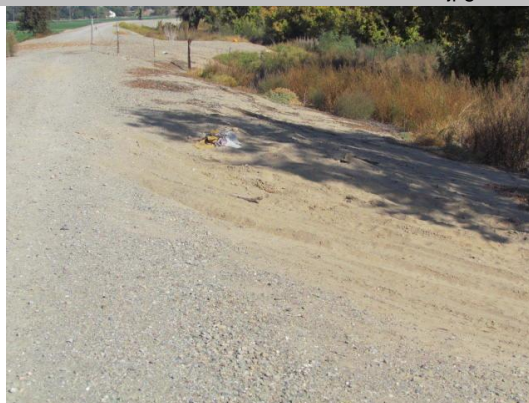
Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.56	Rating **	M	Issue No.	64
LM End	1.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.854081 °	37.854081 °
				-121.321268 °	-121.321268 °
DWR ID	DWR_RD0544_01_f_2013_64				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Damaged levee slope due to fishermen using slope as a ramp.					

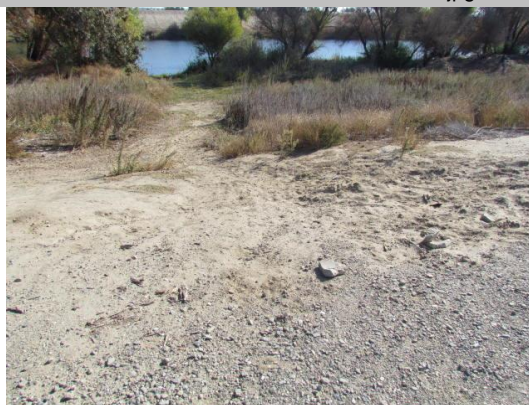
Photo 1 of 2 : richard_s_20140320_313.jpg



Looking northeast at waterward slope.

LM Start	1.56	Rating **	M	Issue No.	64 (cont)
LM End	1.56	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : richard_s_20140320_314.jpg



Looking east at damaged waterward slope.

LM Start	1.58	Rating **	A/W	Issue No.	43
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.854108 °	37.854837 °
				-121.321582 °	-121.323280 °
DWR ID	DWR_RD0544_01_s_2012_43				
Action/Comments					
Remove the wild growth other than native grasses from the levee					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.73	Rating **	A/W	Issue No.	55
LM End	1.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.854530 °	37.852850 °
				-121.323870 °	-121.324058 °
DWR ID	DWR_RD0544_01_s _ 2012_55				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.74	Rating **	M	Issue No.	38
LM End	1.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.854506 °	37.854506 °
				-121.323886 °	-121.323886 °
DWR ID	DWR_RD0544_01_s _ 2014_38				
Action/Comments					
Inspector Comments: FS_ID:23872					
EP_NO: 4114					
Repair Type:					
Crossing Status:					
UCIP Comments: - levee depression on both sides of the levee 2-inch electric conduit on waterside and service pole on landside.					
FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 2 feet below the crown, pump mounted on pile structure pier in the stream. Siphon breaker on the landward slope. Concrete standpipe at the toe of the landward slope. (App. No. 4114-Katie M. Feck) O&M Manual SJR 007, April 1964.					
FS Date: 10/29/2013					

Photo 1 of 1 : UCIP_3808.jpg



WS view: depression on levee shoulder near walkway. Half of the walkway stripped off.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.80	Rating **	A/W	Issue No.	20
LM End	1.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.853445 °	37.853445 °
				-121.324227 °	-121.324227 °
DWR ID	DWR_RD0544_01_s _ 2012_20				
Action/Comments					
Prunings					

No Photos

LM Start	1.83	Rating **	M	Issue No.	5
LM End	1.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.853188 °	37.853188 °
				-121.324145 °	-121.324145 °
DWR ID	DWR_RD0544_01_s _ 2013_5				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Slope damaged by vehicle traffic.					

Photo 1 of 1 : richard_s_20140320_287.jpg



Looking east at landward slope damaged by vehicle traffic.

LM Start	1.86	Rating **	A/W	Issue No.	21
LM End	1.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.852771 °	37.852771 °
				-121.324014 °	-121.324014 °
DWR ID	DWR_RD0544_01_s _ 2012_21				
Action/Comments					
Prunings					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.95	Rating **	A/W	Issue No.	44
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.851615 °	37.848105 °
				-121.323210 °	-121.324857 °
DWR ID	DWR_RD0544_01_s _ 2012_44				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.01	Rating **	M	Issue No.	90
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.850825 °	37.850825 °
				-121.322475 °	-121.322475 °
DWR ID	DWR_RD0544_01_s _ 2014_90				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : richard_s_20140411_531.jpg



Looking at rodent hole on levee crown.

LM Start	2.01	Rating **	U	Issue No.	46
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.850534 °	37.850534 °
				-121.322285 °	-121.322285 °
DWR ID	DWR_RD0544_01_s _ 2014_46				
Action/Comments					
Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: Erosion is right at the inside of a river bend. Dense vegetation is visible at the site. [2013 Site ID:RD0544U01RM48.81]					

Photo 1 of 1 : richard_s_20140320_306.jpg



Front view of erosion.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.27	Rating **	M	Issue No.	53
LM End	2.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848225 °	37.848225 °
				-121.324868 °	-121.324868 °
DWR ID	DWR_RD0544_01_s _ 2014_53				
Action/Comments					
Inspector Comments: FS_ID:23945					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Siphon breaker on the landward slope not found. It has been removed and pipe plugged. Huge levee slope erosion on landside. 2-inch electric conduit on waterside, service pole on landside.					
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.0 feet below the crown, pump on pile structure in the stream. Steel walkway to the pump. 2-inch electric conduit on waterside, power pole on landside.					
O&M Manual SJR 007, April 1964.					
FS Date: 10/29/2013					

Photo 1 of 1 : UCIP_3835.jpg



WS view: steel pipe, walkway to the pump, conduit (bottom left) on levee slope.

LM Start	2.28	Rating **	M	Issue No.	80
LM End	2.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848052 °	37.848052 °
				-121.324846 °	-121.324846 °
DWR ID	DWR_RD0544_01_s _ 2014_80				
Action/Comments					
Inspector Comments: FS_ID:23946					
EP_NO: 3300					
Repair Type:					
Crossing Status:					
UCIP Comments: - erosion on landside and waterside levee slopes due to the pipe leakage.1.5-inch electric conduit					
FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 3.5 feet below the crown, pump mounted on pile structure in the stream. Siphon breaker on the landward slope. Concrete standpipe and service pole at the toe of the landward slope. (App. No. 3300-Lloyd Phelps) O&M Manual SJR 007, April 1964.					
FS Date: 10/29/2013					

Photo 1 of 1 : UCIP_3840.jpg



WS view: exposed pipe, walkway to pump, pump on pile structure in the stream.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.28	Rating **	M	Issue No.	81
LM End	2.28	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848029 °	37.848029 °
				-121.324851 °	-121.324851 °
DWR ID	DWR_RD0544_01_s _ 2014_81				
Action/Comments					
Inspector Comments: FS_ID:24887					
EP_NO: 13554					
Repair Type:					
Crossing Status:					
UCIP Comments: - levee slope erosion on landside.needs cleaning of siphon breaker.					
FIELD_STRUCT_DESC: 12-inch steel pipe, pump in concrete standpipe on drainage ditch on landside. Siphon breaker in steel riser on waterside. (App. No. 13554 - Phelps; 12/7/82), O&M Manual SJR 007, April 1964.					
FS Date: 10/29/2013					

No Photos

LM Start	2.28	Rating **	U	Issue No.	23
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.847985 °	37.847985 °
				-121.324837 °	-121.324837 °
DWR ID	DWR_RD0544_01_s _ 2012_23				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Caving/erosion around irrigation pipe on landside slope.					

Photo 1 of 2 : richard_s_20140320_299.jpg



Looking north at erosion under irrigation pipe on landside slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.28	Rating **	U	Issue No.	23 (cont)
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.847985 °	37.847985 °
				-121.324837 °	-121.324837 °
DWR ID	DWR_RD0544_01_s _ 2012_23				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Caving/erosion around irrigation pipe on landside slope.					

Photo 2 of 2 : richard_s_20140320_300.jpg



Looking east at erosion under irrigation pipe on landside slope.

LM Start	2.29	Rating **	M	Issue No.	8
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.847973 °	37.847105 °
				-121.324820 °	-121.324577 °
DWR ID	DWR_RD0544_01_s _ 2012_8				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.31	Rating **	M	Issue No.	34
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.847686 °	37.846743 °
				-121.324780 °	-121.324336 °
DWR ID	DWR_RD0544_01_s _ 2012_34				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.34	Rating **	M	Issue No.	7
LM End	2.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.847108 °	37.847108 °
				-121.324585 °	-121.324585 °
DWR ID	DWR_RD0544_01_s _ 2012_7				
Action/Comments					
Garbage					
Inspector Comments: Garbage and prunings at landside toe.					

Photo 1 of 1 : richard_s_20140320_288.jpg



Looking southwest at garbage at landside toe.

LM Start	2.38	Rating **	M	Issue No.	74
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.846687 °	37.846687 °
				-121.324278 °	-121.324278 °
DWR ID	DWR_RD0544_01_f _ 2013_74				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.38	Rating **	M	Issue No.	65
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.846660 °	37.846660 °
				-121.324240 °	-121.324240 °
DWR ID	DWR_RD0544_01_s _ 2013_65				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.40	Rating **	M	Issue No.	67
LM End	2.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.846508 °	37.846508 °
				-121.324103 °	-121.324103 °
DWR ID	DWR_RD0544_01_s _ 2013_67				
Action/Comments					
Building					
Inspector Comments: Building has been in place for several years.					

Photo 1 of 1 : richard_s_20140320_315.jpg



Looking southeast at building at landward toe.

LM Start	2.41	Rating **	A/W	Issue No.	68
LM End	2.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.846315 °	37.846315 °
				-121.323875 °	-121.323875 °
DWR ID	DWR_RD0544_01_s _ 2013_68				
Action/Comments					
Equipment					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.45	Rating **	M	Issue No.	82
LM End	2.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.845968 °	37.845968 °
				-121.323357 °	-121.323357 °
DWR ID	DWR_RD0544_01_s_2014_82				
Action/Comments					
Inspector Comments: FS_ID:24888					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - pipe 2 ft. below the crown, soil around the siphon breaker eroded.					
FIELD_STRUCT_DESC: 8-inch pipe through the levee, 2 feet below the crown. Siphon breaker waterside slope. Pump on drainage channel bank.					
FS Date: 10/29/2013					

Photo 1 of 1 : UCIP_4331.jpg



LS view: pump on drainage ditch bank about 140 ft from the levee.

LM Start	2.58	Rating **	M	Issue No.	60
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.844337 °	37.844337 °
				-121.321853 °	-121.321853 °
DWR ID	DWR_RD0544_01_s_2012_60				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 2 : richard_s_20140320_309.jpg



Looking south at slope damage on landside slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.58	Rating **	M	Issue No.	60 (cont)
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.844337 °	37.844337 °
				-121.321853 °	-121.321853 °
DWR ID	DWR_RD0544_01_s _ 2012_60				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 2 of 2 : richard_s_20140320_310.jpg



Looking north at slope damage on landside slope.

LM Start	2.59	Rating **	M	Issue No.	91
LM End	2.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.844423 °	37.844423 °
				-121.321896 °	-121.321896 °
DWR ID	DWR_RD0544_01_s _ 2014_91				
Action/Comments					
Pipe Inspector Comments: Landowner repaired pipe without maintanance letter.					

Photo 1 of 1 : richard_s_20140411_532.jpg



Looking at open trench with irrigation pipe on landward shoulder and slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.59	Rating **	M	Issue No.	83
LM End	2.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.844386 °	37.844386 °
				-121.321894 °	-121.321894 °
DWR ID	DWR_RD0544_01_s_2014_83				

Action/Comments

Inspector Comments: FS_ID:24889

EP_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: Siphon breaker on the landward shoulder not found. Service pole on landside. Huge erosion on landside and waterside of the levee due to the pipe leakage.

FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 2.0 feet below the crown; pump mounted on pile structure in the stream. Steel walkway to the pump. Air relief valve on the waterside shoulder.

Concrete distribution box at the toe of the landward slope. O&M Manual SJR 007, April 1964.

FS Date: 10/29/2013

Photo 1 of 1 : UCIP_4336.jpg



WS view: exposed pipe, walkway to pump, and pump on pile structure in the stream.

LM Start	2.86	Rating **	N	Issue No.	22
LM End	2.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.841075 °	37.841075 °
				-121.320205 °	-121.320205 °
DWR ID	DWR RD0544 01 s 2012 22				

Action/Comments

Tree stumps.

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.89	Rating **	M	Issue No.	69
LM End	2.89	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.841032 °	37.841032 °
				-121.319748 °	-121.319748 °
DWR ID	DWR_RD0544_01_s _ 2013_69				
Action/Comments					
Ramp					

No Photos

LM Start	2.94	Rating **	U	Issue No.	77
LM End	2.94	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.840697 °	37.840697 °
				-121.318252 °	-121.318252 °
DWR ID	DWR_RD0544_01_s _ 2014_77				
Action/Comments					
Inspector Comments: 08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site. 08/07/2012: Erosion is immediately upstream of a river bend. Dense vegetation is visible at the erosion site. [2013 Site ID:RD0544U01RM49.67]					

Photo 1 of 1 : richard_s_20140320_320.jpg



Close view of the site. Erosion has worsened and more vegetation is visible.

LM Start	2.98	Rating **	M	Issue No.	47
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.840485 °	37.837225 °
				-121.318390 °	-121.317408 °
DWR ID	DWR_RD0544_01_s _ 2012_47				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.98	Rating **	U	Issue No.	16
LM End	2.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.840483 °	37.840483 °
				-121.318370 °	-121.318370 °
DWR ID	DWR_RD0544_01_s _ 2012_16				
Action/Comments					
Pipe					
Inspector Comments: Landowner installing temporary irrigation system across levee crown without permit. Pipe is leaking and causing erosion on waterside slope and berm. Landowner also installed a concrete wall around pump.					

Photo 1 of 8 : richard_s_20140320_290.jpg



Looking east at landowner installing temporary pump system without permit and damage to waterside slope.

Photo 2 of 8 : richard_s_20140320_291.jpg



Looking east at pump and irrigation ramp on levee waterside and crown.

LM Start	2.98	Rating **	U	Issue No.	16 (cont)
LM End	2.98	Issue Type +	En	Location *	LS

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.98	Rating **	U	Issue No.	16 (cont)
LM End	2.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.840483 °	37.840483 °
				-121.318370 °	-121.318370 °
DWR ID	DWR_RD0544_01_s _ 2012_16				
Action/Comments					
Pipe					

Photo 3 of 8 : richard_s_20140320_292.jpg



Looking south at damage landside slope caused by vehicle traffic.

LM Start	2.98	Rating **	U	Issue No.	16 (cont)
LM End	2.98	Issue Type +	En	Location *	LS

Photo 4 of 8 : richard_s_20140320_293.jpg



Looking north at pipe and pipe ramp on landside and crown of levee.

LM Start	2.98	Rating **	U	Issue No.	16 (cont)
LM End	2.98	Issue Type +	En	Location *	LS

Photo 5 of 8 : richard_s_20140320_294.jpg



Looking east at erosion caused by leaking pipe on waterside slope.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.98	Rating **	U	Issue No.	16 (cont)	
LM End	2.98	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.840483 °	37.840483 °	
				-121.318370 °	-121.318370 °	
DWR ID	DWR_RD0544_01_s _ 2012_16					
Action/Comments						
Pipe						

Photo 6 of 8 : richard_s_20140320_295.jpg



Looking northeast at unauthorized pump system on waterside slope.

LM Start	2.98	Rating **	U	Issue No.	16 (cont)
LM End	2.98	Issue Type +	En	Location *	LS

Photo 7 of 8 : richard_s_20140320_296.jpg



Looking east at erosion caused by leaking hose on waterward berm.
(Spring 2013)

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.98	Rating **	U	Issue No.	16 (cont)
LM End	2.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.840483 °	37.840483 °
				-121.318370 °	-121.318370 °
DWR ID	DWR_RD0544_01_s_2012_16				
Action/Comments					
Pipe					

Photo 8 of 8 : richard_s_20140411_533.jpg



Looking east at concrete wall around temporary pump on waterward berm. (Spring 2014)

LM Start	2.98	Rating **	M	Issue No.	75
LM End	2.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving				o
					o
DWR ID	DWR_RD0544_01_f_2013_75				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Hole on levee crown shoulder. Hole is 16"x18"x24.Hole is undermining back toward landward slope.					

Photo 1 of 3 : richard_s_20140320_316.jpg



Looking at large hole on waterward shoulder.

LM Start	2.98	Rating **	M	Issue No.	75 (cont)
LM End	2.98	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : richard_s_20140320_317.jpg



Looking at hole on waterward shoulder.

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.98	Rating **	M	Issue No.	75 (cont)	
LM End	2.98	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving				°	°
					°	°
DWR ID	DWR_RD0544_01_f_2013_75					
Action/Comments						
Schedule repair of erosion site prior to the next inspection.						

Photo 3 of 3 : richard_s_20140320_318.jpg



Looking at hole approx. 16" deep on waterward shoulder.

LM Start	3.15	Rating **	M	Issue No.	76
LM End	3.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.837929 °	37.837929 °
				-121.317663 °	-121.317663 °
DWR ID	DWR_RD0544_01_f_2013_76				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damaged extends from levee slope to shoulder.					

Photo 1 of 1 : richard_s_20140320_319.jpg



Looking east at slope damage on waterward slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	3.19	Rating **	M	Issue No.	84
LM End	3.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.837556 °	37.837556 °
				-121.317523 °	-121.317523 °
DWR ID	DWR_RD0544_01_s_2014_84				
Action/Comments					
Inspector Comments: FS_ID:23990					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - huge levee slope erosion on landside.1-inch electric conduit, power pole on landside.not clear whether this is a irrigation or drainage pipe.					
FIELD_STRUCT_DESC: 1 of 2: Two 14-inch steel pipes through the levee, 8.0 feet below the crown. Slide gates in 6-foot by 6-foot concrete distribution box at the toe of the landward slope. O&M Manual SJR 007, April 1964.					
FS Date: 10/29/2013					

Photo 1 of 1 : UCIP_3922.jpg



WS view: exposed steel pipes, levee slope, and pumphouse for 2nd

LM Start	3.19	Rating **	M	Issue No.	85
LM End	3.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.837544 °	37.837544 °
				-121.317517 °	-121.317517 °
DWR ID	DWR_RD0544_01_s_2014_85				
Action/Comments					
Inspector Comments: FS_ID:24890					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: 1-inch electric conduit on waterside, power pole on landside. huge erosion and levee damage on landside slope due to the leaky pipe. flow meter on waterside.					
FIELD_STRUCT_DESC: 2 of 2: Two 14-inch steel pipes through the levee, 5.0 feet below the crown. Gate valve in pump house on the waterward slope. Slide gates in 6-foot by 6-foot concrete distribution box at the toe of the landward slope. O&M Manual SJR 007, April 1964.					
FS Date: 10/29/2013					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	3.19	Rating **	M	Issue No.	62
LM End	3.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.837530 °	37.837530 °
				-121.317510 °	-121.317510 °
DWR ID	DWR_RD0544_01_s _ 2012_62				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 1 : richard_s_20140320_311.jpg



Looking east at slope damaged by foot traffic near pump house on waterside of levee.

LM Start	3.25	Rating **	M	Issue No.	49
LM End	3.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.836763 °	37.829195 °
				-121.317307 °	-121.311918 °
DWR ID	DWR_RD0544_01_s _ 2012_49				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	3.26	Rating **	M	Issue No.	48
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.836615 °	37.836133 °
				-121.317285 °	-121.317153 °
DWR ID	DWR_RD0544_01_s _ 2012_48				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	3.31	Rating **	M	Issue No.	37
LM End	3.31	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.835951 °	37.835951 °
				-121.317062 °	-121.317062 °
DWR ID	DWR_RD0544_01_s _ 2012_37				
Action/Comments					
Ramp					
Inspector Comments: Landowner has cut new ramp on waterside slope.					

No Photos

LM Start	3.32	Rating **	M	Issue No.	50
LM End	3.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.835815 °	37.835815 °
				-121.316997 °	-121.316997 °
DWR ID	DWR_RD0544_01_s _ 2012_50				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Erosion located on waterside shoulder. Erosion caused by rain runoff.					

No Photos

LM Start	3.51	Rating **	M	Issue No.	56
LM End	3.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.833583 °	37.833583 °
				-121.314968 °	-121.314968 °
DWR ID	DWR_RD0544_01_s _ 2012_56				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	3.52	Rating **	M	Issue No.	51
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.833432 °	37.821853 °
				-121.314792 °	-121.319992 °
DWR ID	DWR_RD0544_01_s _ 2012_51				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	3.95	Rating **	M	Issue No.	24
LM End	3.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.828120 °	37.828120 °
				-121.311504 °	-121.311504 °
DWR ID	DWR_RD0544_01_s _ 2012_24				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	3.97	Rating **	A/W	Issue No.	63
LM End	4.34	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.827800 °	37.824953 °
				-121.311332 °	-121.314988 °
DWR ID	DWR_RD0544_01_s _ 2012_63				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 1 : richard_s_20140320_312.jpg



Looking south at one of several sites needing gravel or road base on levee crown.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.06	Rating **	M	Issue No.	11
LM End	4.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.826621 °	37.826315 °
				-121.310820 °	-121.311024 °
DWR ID	DWR_RD0544_01_s _ 2012_11				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	4.18	Rating **	M	Issue No.	52
LM End	4.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.825762 °	37.825005 °
				-121.312393 °	-121.314982 °
DWR ID	DWR_RD0544_01_s _ 2012_52				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.21	Rating **	M	Issue No.	78
LM End	4.22	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.825248 °	37.825248 °
				-121.313856 °	-121.313856 °
DWR ID	DWR_RD0544_01_s _ 2014_78				
Action/Comments					
Inspector Comments: 08/13/2013: The erosion has been caused by irrigation pipe. [2013 Site ID:RD0544U01RM51.04]					

Photo 1 of 1 : richard_s_20140320_321.jpg



Close view of the site.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.28	Rating **	M	Issue No.	57
LM End	4.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.825517 °	37.822955 °
				-121.314160 °	-121.316835 °
DWR ID	DWR_RD0544_01_s _ 2012_57				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.32	Rating **	U	Issue No.	79
LM End	4.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.824360 °	37.824360 °
				-121.314360 °	-121.314360 °
DWR ID	DWR_RD0544_01_s _ 2014_79				
Action/Comments					
Inspector Comments: 08/13/2013: This erosion has been caused by instability of the levee . Larger trees exist downstream of the erosion site. [2013 Site ID:RD0544U01RM51.09]					

Photo 1 of 1 : richard_s_20140320_322.jpg



Looking from upstream at the site.

LM Start	4.32	Rating **	A/W	Issue No.	25
LM End	4.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.825151 °	37.825151 °
				-121.314826 °	-121.314826 °
DWR ID	DWR_RD0544_01_s _ 2012_25				
Action/Comments					
Garbage Inspector Comments: Old concrete pipes on landside toe should be removed.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.33	Rating **	A/W	Issue No.	58
LM End	4.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.825035 °	37.825035 °
				-121.314967 °	-121.314967 °
DWR ID	DWR_RD0544_01_s _ 2012_58				
Action/Comments					
Repair depressions or ruts in the crown or slope.					
Inspector Comments: Depression across levee crown					

Photo 1 of 2 : richard_s_20140320_307.jpg



Looking south at depression greater than 6" on waterside shoulder.

LM Start	4.33	Rating **	A/W	Issue No.	58 (cont)
LM End	4.33	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : richard_s_20140320_308.jpg



Looking southeast at depression on waterside shoulder.

LM Start	4.33	Rating **	M	Issue No.	86
LM End	4.33	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825071 °	37.825071 °
				-121.314932 °	-121.314932 °
DWR ID	DWR_RD0544_01_s _ 2014_86				
Action/Comments					
Inspector Comments: FS_ID:24893					

Photo 1 of 1 : UCIP_4347.jpg



WS view: pipes, pumps, walkway to pump, and pile structure in the stream.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.34	Rating **	M	Issue No.	59
LM End	4.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.824943 °	37.824943 °
				-121.315008 °	-121.315008 °
DWR ID	DWR_RD0544_01_s _ 2012_59				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.44	Rating **	M	Issue No.	54
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.823617 °	37.821855 °
				-121.315550 °	-121.319995 °
DWR ID	DWR_RD0544_01_s _ 2012_54				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.53	Rating **	U	Issue No.	41
LM End	4.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.822934 °	37.822934 °
				-121.316870 °	-121.316870 °
DWR ID	DWR_RD0544_01_s _ 2012_41				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : richard_s_20140320_304.jpg



Looking south at elderberries on landside slope and toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.70	Rating **	M	Issue No.	27
LM End	4.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821901 °	37.821901 °
				-121.319683 °	-121.319683 °
DWR ID	DWR_RD0544_01_s _ 2012_27				
Action/Comments					
Garbage					

No Photos

LM Start	4.75	Rating **	M	Issue No.	28
LM End	4.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.821626 °	37.821626 °
				-121.320471 °	-121.320471 °
DWR ID	DWR_RD0544_01_s _ 2012_28				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : richard_s_20140320_301.jpg



Looking north at erosion around irrigation pipe on landside

Photo 2 of 2 : richard_s_20140320_302.jpg



Looking northeast at erosion around irrigation pipe on landside slope.

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.75	Rating **	A/W	Issue No.	29
LM End	4.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821626 °	37.821626 °
				-121.320471 °	-121.320471 °
DWR ID	DWR_RD0544_01_s _ 2012_29				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and					

No Photos

LM Start	4.75	Rating **	M	Issue No.	26
LM End	4.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821592 °	37.821253 °
				-121.320617 °	-121.320927 °
DWR ID	DWR_RD0544_01_s _ 2012_26				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.78	Rating **	M	Issue No.	45
LM End	4.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				o
					o
DWR ID	DWR_RD0544_01_s _ 2012_45				
Action/Comments					
Building Inspector Comments: New unauthorized pump shed on landside toe.					

Photo 1 of 1 : richard_s_20140320_305.jpg



Looking west at a unauthorized pump house on landside toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.79	Rating **	M	Issue No.	87
LM End	4.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821153 °	37.821153 °
				-121.320995 °	-121.320995 °
DWR ID	DWR_RD0544_01_s_2014_87				
Action/Comments					
Inspector Comments: FS_ID:24894					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - huge erosion on landside slope due to leaky pipe.					
small depression on waterside slope.					
FIELD_STRUCT_DESC: 12-inch diameter steel pipe through the levee,					
4.4 feet below crown. Pump house on the landward slope. Pressure					
relief valve on the landside slope. Concrete distribution box at toe of					
landward slope. O&M Manual SJR 007, April 1964.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4351.jpg



LS view: distribution box (top-left), pumphouse (right) and exposed leaky pipe on eroded levee slope.

LM Start	4.86	Rating **	A/W	Issue No.	30
LM End	4.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.820227 °	37.820227 °
				-121.321115 °	-121.321115 °
DWR ID	DWR_RD0544_01_s_2012_30				
Action/Comments					
Prunings					
Inspector Comments: Remove dead stumps at landside toe and prunings on landside slope.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.86	Rating **	M	Issue No.	31
LM End	4.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820081 °	37.820081 °
				-121.321043 °	-121.321043 °
DWR ID	DWR_RD0544_01_s _ 2012_31				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.94	Rating **	M	Issue No.	32
LM End	4.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819249 °	37.819249 °
				-121.320460 °	-121.320460 °
DWR ID	DWR_RD0544_01_s _ 2012_32				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.96	Rating **	U	Issue No.	163
LM End	5.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			°	37.818125 °
				°	-121.319070 °
DWR ID	DWR_RD0544_01_s _ 2012_163				
Action/Comments					
Ditch Inspector Comments: Agricultural ditch on landside toe.					

Photo 1 of 1 : richard_s_20140320_323.jpg



Looking southwest at ditch on landside slope and toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	5.00	Rating **	M	Issue No.	33
LM End	5.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818718 °	37.814662 °
				-121.319508 °	-121.320302 °
DWR ID	DWR_RD0544_01_s _ 2012_33				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : richard_s_20140320_303.jpg



Looking southeast at dense veg. on landside slope and toe.

LM Start	5.05	Rating **	M	Issue No.	17
LM End	5.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818152 °	37.818152 °
				-121.319095 °	-121.319095 °
DWR ID	DWR_RD0544_01_s _ 2012_17				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	5.39	Rating **	M	Issue No.	35
LM End	5.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.813659 °	37.813659 °
				-121.319614 °	-121.319614 °
DWR ID	DWR_RD0544_01_s _ 2012_35				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	5.54	Rating **	U	Issue No.	18
LM End	5.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.812033 °	37.811687 °
				-121.319737 °	-121.320677 °
DWR ID	DWR_RD0544_01_s _ 2012_18				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : richard_s_20140320_297.jpg



Looking southwest on elderberries on landside slope and toe.

LM Start	5.54	Rating **	U	Issue No.	18 (cont)
LM End	5.60	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : richard_s_20140320_298.jpg



Looking south at elderberries on landside slope and toe.

LM Start	5.69	Rating **	N	Issue No.	40
LM End	5.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.811199 °	37.811199 °
				-121.322176 °	-121.322176 °
DWR ID	DWR_RD0544_01_s _ 2012_40				
Action/Comments					
Tree stumps.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/10/2014 04/10/2014	Richard Willoughby

LM Start	5.76	Rating **	M	Issue No.	88
LM End	5.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.811192 °	37.811192 °
				-121.323531 °	-121.323531 °
DWR ID	DWR_RD0544_01_s_2014_88				
Action/Comments					
Inspector Comments: FS_ID:24233					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - 2-inch electric conduit on watersideservice pole on landsideneeds a cover on pressure relief valve.					
FIELD_STRUCT_DESC: 16-inch steel pipe and electrical conduit through the levee, 5.3 feet below the crown, pump mounted on pile structure in the stream. Steel walkway to the pump. Two 36-inch concrete stand pipes on the landward side. United States Army Corps of Engineers, installation 1962. O&M Manual SJR 007, April 1964.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4074.jpg



WS view: pump on pile structure, walkway to the pump on levee slope.

LM Start	5.87	Rating **	M	Issue No.	70
LM End	5.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.811068 °	37.811068 °
				-121.325412 °	-121.325412 °
DWR ID	DWR_RD0544_01_s_2013_70				
Action/Comments					
Tree or limb					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 02 Old River			Right	4.22
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/10/2014 - 04/10/2014			
DWR Inspector	Richard Willoughby			
Accompanied By	Jerry Robinson			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	49
LM End	4.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808605 °	°
				-121.328563 °	°
DWR ID	DWR_RD0544_02_s _ 2014_49				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	50
LM End	4.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808467 °	°
				-121.329686 °	°
DWR ID	DWR_RD0544_02_s _ 2014_50				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.32	Rating **	M	Issue No.	3
LM End	0.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808972 °	37.809442 °
				-121.333720 °	-121.334415 °
DWR ID	DWR_RD0544_02_s _ 2012_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.41	Rating **	U	Issue No.	4
LM End	0.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809788 °	37.809788 °
				-121.334727 °	-121.334727 °
DWR ID	DWR_RD0544_02_s _ 2012_4				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 3 : richard_s_20140320_334.jpg



Looking northwest at elderberries on landside slope and toe.

LM Start	0.41	Rating **	U	Issue No.	4 (cont)
LM End	0.41	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : richard_s_20140320_335.jpg



Looking south at elderberries on landside slope.

LM Start	0.41	Rating **	U	Issue No.	4 (cont)
LM End	0.41	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : richard_s_20140320_336.jpg



Looking northwest at elderberry on landside slope. (Spring 2012)

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	1
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810250 °	37.819452 °
				-121.334933 °	-121.333755 °
DWR ID	DWR_RD0544_02_s _ 2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee					

No Photos

LM Start	0.43	Rating **	M	Issue No.	2
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810253 °	37.822285 °
				-121.334930 °	-121.339252 °
DWR ID	DWR_RD0544_02_s _ 2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.52	Rating **	N	Issue No.	11
LM End	0.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.811592 °	37.811592 °
				-121.335018 °	-121.335018 °
DWR ID	DWR_RD0544_02_s _ 2012_11				
Action/Comments					
Tree stumps.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.74	Rating **	U	Issue No.	5
LM End	0.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814333 °	37.814333 °
				-121.334592 °	-121.334592 °
DWR ID	DWR_RD0544_02_s _ 2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : richard_s_20140320_337.jpg



Looking south at elderberries on landside slope and toe.

LM Start	0.79	Rating **	U	Issue No.	8
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.815102 °	37.815102 °
				-121.333898 °	-121.333898 °
DWR ID	DWR_RD0544_02_s _ 2012_8				
Action/Comments					
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.					

Photo 1 of 8 : richard_s_20140320_339.jpg



Looking at top of siphon on waterside shoulder with 3' of caving around pipe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	8 (cont)	
LM End	0.79	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start	End	
Item	Erosion Areas			37.815102 °	37.815102 °	
				-121.333898 °	-121.333898 °	
DWR ID	DWR_RD0544_02_s _ 2012_8					
Action/Comments						
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.						

Photo 2 of 8 : richard_s_20140320_340.jpg



Looking at caving around 10" siphon pipe on waterside shoulder.

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

Photo 3 of 8 : richard_s_20140320_341.jpg



Looking south at depression greater than 6" on waterside shoulder.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.815102 °	37.815102 °
				-121.333898 °	-121.333898 °
DWR ID	DWR_RD0544_02_s_2012_8				
Action/Comments					
Inspector Comments: Caving under and around siphon on waterside					

Photo 4 of 8 : richard_s_20140320_342.jpg



Looking south at depression greater than 6" around siphon on waterside shoulder.

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

Photo 5 of 8 : richard_s_20140320_343.jpg



Looking at top of siphon with a depression greater than 6" on waterside shoulder.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.815102 °	37.815102 °
				-121.333898 °	-121.333898 °
DWR ID	DWR_RD0544_02_s _ 2012_8				
Action/Comments					
Inspector Comments: Caving under and around siphon on waterside					

Photo 6 of 8 : richard_s_20140320_344.jpg



Looking west at caving around siphon on waterside shoulder. (Spring 2012)

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

Photo 7 of 8 : richard_s_20140320_345.jpg



Looking south at caving around siphon on waterside shoulder. (Spring 2012)

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	8 (cont)	
LM End	0.79	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start		End
Item	Erosion Areas			37.815102 °	37.815102 °	
				-121.333898 °	-121.333898 °	
DWR ID	DWR_RD0544_02_s_2012_8					
Action/Comments						
Inspector Comments: Caving under and around siphon on waterside						

Photo 8 of 8 : richard_s_20140320_346.jpg



Looking east at caving around siphon on waterside shoulder. (Spring 2012)

LM Start	0.79	Rating **	M	Issue No.	16
LM End	0.79	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.815098 °	37.815098 °
				-121.333903 °	-121.333903 °
DWR ID	DWR_RD0544_02_s_2014_16				
Action/Comments					
Inspector Comments: FS_ID:24903					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - 8 ft X 7 ft X 4 ft depression around siphon breaker on waterside slope.no pipe visible on waterside due to dense vegetation.electric conduit and service pole on landside.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.0 feet below the crown. Pump in drain ditch on the landward side. Siphon breaker on waterside levee slope.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4359.jpg



LS view: pump on timber support in drainage ditch. About 150 ft from levee center.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.02	Rating **	M	Issue No.	6
LM End	1.02	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818100 °	37.818100 °
				-121.332750 °	-121.332750 °
DWR ID	DWR_RD0544_02_s _ 2012_6				
Action/Comments					
Garbage					

Photo 1 of 1 : richard_s_20140320_338.jpg



Looking southeast at garbage on waterside shoulder and slope.

LM Start	1.14	Rating **	U	Issue No.	20
LM End	1.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819530 °	37.819530 °
				-121.333827 °	-121.333827 °
DWR ID	DWR_RD0544_02_s _ 2012_20				
Action/Comments					
Prunings Inspector Comments: Rubber tires and other items have been added to pruning pile.					

Photo 1 of 3 : richard_s_20140320_357.jpg



Looking southwest at pruning pile on landside slope.

LM Start	1.14	Rating **	U	Issue No.	20 (cont)
LM End	1.14	Issue Type +	En	Location *	LS

Photo 2 of 3 : richard_s_20140320_358.jpg



Looking southwest at garbage and pruning pile at landside toe.(Spring 2012)

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.14	Rating **	U	Issue No.	20 (cont)	
LM End	1.14	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.819530 °	37.819530 °	
				-121.333827 °	-121.333827 °	
DWR ID	DWR_RD0544_02_s _ 2012_20					
Action/Comments						
Prunings						

Photo 3 of 3 : richard_s_20140411_534.jpg



Looking southwest at pruning & garbage piles at landward toe. (Spring 2014)

LM Start	1.15	Rating **	M	Issue No.	25
LM End	1.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819560 °	37.820083 °
				-121.333893 °	-121.334812 °
DWR ID	DWR_RD0544_02_s _ 2012_25				
Action/Comments					
Fence					

No Photos

LM Start	1.17	Rating **	M	Issue No.	18
LM End	1.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819830 °	37.820235 °
				-121.334233 °	-121.335268 °
DWR ID	DWR_RD0544_02_s _ 2012_18				
Action/Comments					
Abandoned vehicles					
Inspector Comments: Vehicles and farm equipment stored on landside for several years. Area is defined a oversize levee.					

Photo 1 of 3 : richard_s_20140320_354.jpg



Looking southwest at vehicles and farm equipment stored on landside landing.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.17	Rating **	M	Issue No.	18 (cont)
LM End	1.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819830 °	37.820235 °
				-121.334233 °	-121.335268 °
DWR ID	DWR_RD0544_02_s _ 2012_18				
Action/Comments					
Abandoned vehicles					
Inspector Comments: Vehicles and farm equipment stored on landside for several years. Area is defined a oversize levee.					

Photo 2 of 3 : richard_s_20140320_355.jpg



Looking northwest at vehicles and farm equipment stored on landside landing.

LM Start	1.17	Rating **	M	Issue No.	18 (cont)
LM End	1.23	Issue Type +	En	Location *	LS

Photo 3 of 3 : richard_s_20140320_356.jpg



Looking southwest at farm equipment, vehicles, and other items stored on landside landing.

LM Start	1.23	Rating **	A/W	Issue No.	7
LM End	1.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.820235 °	37.820235 °
				-121.335127 °	-121.335127 °
DWR ID	DWR_RD0544_02_s _ 2012_7				
Action/Comments					
Prunings					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.36	Rating **	M	Issue No.	38
LM End	1.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821095 °	37.822285 °
				-121.337185 °	-121.339252 °
DWR ID	DWR_RD0544_02_s _ 2012_38				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.39	Rating **	M	Issue No.	14
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821323 °	37.821323 °
				-121.337725 °	-121.337725 °
DWR ID	DWR_RD0544_02_s _ 2012_14				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Control bamboo on waterside slope.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.40	Rating **	M	Issue No.	27
LM End	1.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821380 °	37.821380 °
				-121.337835 °	-121.337835 °
DWR ID	DWR_RD0544_02_s_2014_27				
Action/Comments					
Inspector Comments: FS_ID:24905					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - the pipe 3 ft to 4 ft below the crown steel pipe riser on landside but not sure whether it is connected to the pipe. slope erosion on landside.					
FIELD_STRUCT_DESC: 8-inch pipe through the levee, 3.5 ft below the crown; open on both ends. Soil erosion on landside. Steel pipe riser on landside.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4362.jpg



LS view: steel pipe riser off the levee toe.

LM Start	1.40	Rating **	A/W	Issue No.	21
LM End	1.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821463 °	37.821463 °
				-121.337900 °	-121.337900 °
DWR ID	DWR_RD0544_02_s_2012_21				
Action/Comments					
Pipe					
Inspector Comments: Pipe should be removed or properly abandoned.					

Photo 1 of 3 : richard_s_20140320_360.jpg



Looking east at pipe on landside slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.40	Rating **	A/W	Issue No.	21 (cont)
LM End	1.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821463 °	37.821463 °
				-121.337900 °	-121.337900 °
DWR ID	DWR_RD0544_02_s _ 2012_21				
Action/Comments					
Pipe					
Inspector Comments: Pipe should be removed or properly abandoned.					

Photo 2 of 3 : richard_s_20140320_361.jpg



Looking east at pipe and erosion just above pipe on landside slope and shoulder.

LM Start	1.40	Rating **	A/W	Issue No.	21 (cont)
LM End	1.40	Issue Type +	En	Location *	LS

Photo 3 of 3 : richard_s_20140320_362.jpg



Looking west at east end of pipe on waterside slope.

LM Start	1.41	Rating **	U	Issue No.	10
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821423 °	37.821423 °
				-121.337878 °	-121.337878 °
DWR ID	DWR_RD0544_02_s _ 2012_10				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : richard_s_20140320_348.jpg



Looking south at elderberries on landside slope and toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.41	Rating **	U	Issue No.	10 (cont)	
LM End	1.41	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Vegetation			37.821423 °	37.821423 °	
				-121.337878 °	-121.337878 °	
DWR ID	DWR_RD0544_02_s _ 2012_10					
Action/Comments						
Elderberries are blocking visibility and flood fight capability.						

Photo 2 of 2 : richard_s_20140320_349.jpg



Looking southwest at elderberries on landside slope.

LM Start	1.44	Rating **	M	Issue No.	22
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.821697 °	37.821697 °
				-121.338397 °	-121.338397 °
DWR ID	DWR_RD0544_02_s _ 2012_22				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 1 : richard_s_20140320_363.jpg



Looking northwest at slope damage caused by vehicle traffic.

LM Start	1.47	Rating **	M	Issue No.	28
LM End	1.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821954 °	37.821954 °
				-121.338715 °	-121.338715 °
DWR ID	DWR_RD0544_02_s _ 2012_28				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.48	Rating **	M	Issue No.	23
LM End	1.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.822082 °	37.822082 °
				-121.338932 °	-121.338932 °
DWR ID	DWR_RD0544_02_s _ 2012_23				
Action/Comments					
Tree or limb					
Inspector Comments: Dead tree and limbs should be removed from landside shoulder and slope.					

Photo 1 of 1 : richard_s_20140320_364.jpg



Looking north at dead tree and tree limbs on landside shoulder and slope.

LM Start	1.53	Rating **	M	Issue No.	29
LM End	1.53	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.822414 °	37.822414 °
				-121.339698 °	-121.339698 °
DWR ID	DWR_RD0544_02_s _ 2014_29				
Action/Comments					
Inspector Comments: FS_ID:24288					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - two pumps with 16" steel pipe and an abandoned pump with 10" pipe inside pump house.CMP riser cover needs repair- electric conduits on waterside and power pole on landside.					
FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, 14.0 feet below the crown. Pump in pump house on the waterward berm. Slide gate in CM pipe riser on the waterward slope. Two CM cutoff walls. Distribution box and power pole on landward toe. O&M Manual SJR 007, April 1964.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4082.jpg



WS view: slide gate in CMP riser, walkway, and pumphouse on levee slope.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	1.54	Rating **	M	Issue No.	31
LM End	1.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.822445 °	37.822445 °
				-121.339910 °	-121.339910 °
DWR ID	DWR_RD0544_02_s_2014_31				
Action/Comments					
Inspector Comments: FS_ID:24907					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: No pipe and appurtenances found on waterside looks abandoned.					
FIELD_STRUCT_DESC: An abandoned 8-inch steel pipe through levee. Pump house on landside toe. Air vent in CMP riser on landside shoulder. Outlet on waterside not visible. No positive closure. Appears abandoned.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4367.jpg



LS view: pipe, pump house, and appurtenances on levee slope.

LM Start	1.55	Rating **	A/W	Issue No.	26
LM End	2.11	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820863 °	37.819393 °
				-121.341285 °	-121.344428 °
DWR ID	DWR_RD0544_02_s_2012_26				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.04	Rating **	M	Issue No.	44
LM End	2.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818733 °	37.818733 °
				-121.343340 °	-121.343340 °
DWR ID	DWR_RD0544_02_s _ 2012_44				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.05	Rating **	M	Issue No.	39
LM End	2.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818842 °	37.820193 °
				-121.343520 °	-121.345525 °
DWR ID	DWR_RD0544_02_s _ 2012_39				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.11	Rating **	M	Issue No.	13
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819337 °	37.819460 °
				-121.344275 °	-121.344492 °
DWR ID	DWR_RD0544_02_s _ 2012_13				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : richard_s_20140320_351.jpg



Looking northwest at elderberries on landside slope and toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.25	Rating **	M	Issue No.	32
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.820697 °	37.820697 °
				-121.346050 °	-121.346050 °
DWR ID	DWR_RD0544_02_s _ 2012_32				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.28	Rating **	M	Issue No.	33
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821096 °	37.821945 °
				-121.346418 °	-121.347897 °
DWR ID	DWR_RD0544_02_s _ 2012_33				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.29	Rating **	A/W	Issue No.	40
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821240 °	37.821240 °
				-121.346553 °	-121.346553 °
DWR ID	DWR_RD0544_02_s _ 2012_40				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	34
LM End	2.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821628 °	37.821628 °
				-121.347016 °	-121.347016 °
DWR ID	DWR_RD0544_02_s_2014_34				
Action/Comments					
Inspector Comments: FS_ID:24293					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pump not found on the landward side.					
FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.0 feet below the crown. No flap gate on the waterward end. Air vent on landside. O&M Manual SJR 007, April 1964.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4087.jpg



LS view: exposed steel pipe and air vent on levee berm. No pump found.

LM Start	2.34	Rating **	M	Issue No.	51
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821757 °	37.821757 °
				-121.347181 °	-121.347181 °
DWR ID	DWR_RD0544_02_s_2014_51				
Action/Comments					
Pipe					
Inspector Comments: Landowner repaired pump and replaced pipe and left pump shaft and pipe on waterward slope.					

Photo 1 of 1 : richard_s_20140411_535.jpg



Looking north at old pump shaft and pipe on waterward slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.34	Rating **	M	Issue No.	9
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821763 °	37.821763 °
				-121.347275 °	-121.347275 °
DWR ID	DWR_RD0544_02_s _ 2014_9				
Action/Comments					
Inspector Comments: 08/20/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It?s possible the pump station played a role in the erosion. [2013 Site ID:RD0544U02RM33.21]					

Photo 1 of 1 : richard_s_20140320_347.jpg



Front view of the erosion site. View is partially blocked by the pump structure and vegetation.

LM Start	2.35	Rating **	U	Issue No.	24
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.821763 °	37.821763 °
				-121.347275 °	-121.347275 °
DWR ID	DWR_RD0544_02_s _ 2012_24				
Action/Comments					
Inspector Comments: Large erosion and beaver activity at waterside toe of levee.					

Photo 1 of 3 : richard_s_20140320_365.jpg



Looking south at breaver hole at waterside toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.35	Rating **	U	Issue No.	24 (cont)
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Channels			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.821763 °	37.821763 °
				-121.347275 °	-121.347275 °
DWR ID	DWR_RD0544_02_s _ 2012_24				
Action/Comments					
Inspector Comments: Large erosion and beaver activity at waterside toe of levee.					

Photo 2 of 3 : richard_s_20140320_366.jpg



Looking north at erosion on waterside slope.

LM Start	2.35	Rating **	U	Issue No.	24 (cont)
LM End	2.35	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : richard_s_20140320_367.jpg



Looking south at river erosion at waterside toe near pumping station.

LM Start	2.36	Rating **	M	Issue No.	41
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821840 °	37.819198 °
				-121.347428 °	-121.359940 °
DWR ID	DWR_RD0544_02_s _ 2012_41				
Action/Comments					
Remove the wild growth other than native grasses from the levee					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.48	Rating **	M	Issue No.	42
LM End	3.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821037 °	37.819200 °
				-121.349050 °	-121.359943 °
DWR ID	DWR_RD0544_02_s _ 2012_42				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.64	Rating **	U	Issue No.	17
LM End	2.64	Issue Type +	En	Location *	WS
Category	Channels			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818872 °	37.818872 °
				-121.350392 °	-121.350392 °
DWR ID	DWR_RD0544_02_s _ 2012_17				
Action/Comments					
Inspector Comments: Remove dilapidated pump platform from river.					

Photo 1 of 1 : richard_s_20140320_353.jpg



Looking east at dilapidated pump platform.

LM Start	2.65	Rating **	M	Issue No.	15
LM End	2.65	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818867 °	37.818867 °
				-121.350393 °	-121.350393 °
DWR ID	DWR_RD0544_02_s _ 2012_15				
Action/Comments					
Pipe Inspector Comments: Abandoned pipe at landside and waterside shoulder is open on both ends.					

Photo 1 of 1 : richard_s_20140320_352.jpg



Abandoned pipe at LM 2.65, landside view.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.65	Rating **	M	Issue No.	35
LM End	2.65	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818887 °	37.818887 °
				-121.350389 °	-121.350389 °
DWR ID	DWR_RD0544_02_s_2014_35				
Action/Comments					
Inspector Comments: FS_ID:24295					
EP_NO: 8625A					
Repair Type:					
Crossing Status:					
UCIP Comments: - abandoned crossing. Needs proper abandonment.pump removed. Pipe discontinued on landside.pile structure in dilapalated condion.					
FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 7.0 feet below the crown. Pump mounted on pile structure in the stream. Siphon breaker on landward shoulder. Power pole on the landward slope. (App. No. 8625A - Irvin Muller) O&M Manual SJR 007, April 1964.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4090.jpg



WS view: dilapalated walkway and pile structure. Pump removed.

LM Start	2.65	Rating **	M	Issue No.	12
LM End	2.67	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.817760 °	37.817760 °
				-121.350850 °	-121.350850 °
DWR ID	DWR_RD0544_02_s_2014_12				
Action/Comments					
Inspector Comments: 10/11/2013: No significant change observed. 08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap, but the rip rap has been washed away. [2013 Site ID:RD0544U02RM32.91]					

Photo 1 of 1 : richard_s_20140320_350.jpg



Front view of pocket erosion. Note the vegetation and riprap at the site.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	2.65	Rating **	M	Issue No.	37
LM End	2.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818860 °	37.818860 °
				-121.350428 °	-121.350428 °
DWR ID	DWR_RD0544_02_s_2014_37				
Action/Comments					
Inspector Comments: FS_ID:24297					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - needs proper abandonment or closer of pipe end.					
FIELD_STRUCT_DESC: A 14-inch steel pipe and a conduit through					
levee, 2 feet below the crown. Open on both ends. No other					
appurtenances found.					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4092.jpg



WS view: steel pipe and electric conduit on levee shoulder.

LM Start	2.76	Rating **	U	Issue No.	43
LM End	3.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.817747 °	37.817497 °
				-121.351578 °	-121.357490 °
DWR ID	DWR_RD0544_02_s_2012_43				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : richard_s_20140320_370.jpg



Looking south a dense vegetation on landward and waterward slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	3.26	Rating **	M	Issue No.	45
LM End	3.26	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818824 °	37.818824 °
				-121.359526 °	-121.359526 °
DWR ID	DWR_RD0544_02_s_2014_45				
Action/Comments					
Inspector Comments: FS_ID:24908					
EP_NO: 16972					
Repair Type:					
Crossing Status:					
UCIP Comments: Pump not found on the waterward side. Damaged pipe-plug on waterside. Pipe exposed on both sides of the levee.					
FIELD_STRUCT_DESC: 1 of 2: Two 8-inch pvc pipes (replaced two 8-inch steel pipes) through the levee, 2.0 feet below the crown. Siphon breaker on waterside. Pump on steel platform in drainage ditch. (App. No. 16972 - Joseph & Gayle Muller)					
FS Date: 10/31/2013					

Photo 1 of 1 : UCIP_4368.jpg



LS view: pump on steel platform over drainage ditch.

LM Start	3.43	Rating **	M	Issue No.	30
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.819813 °	37.819717 °
				-121.362120 °	-121.362733 °
DWR ID	DWR_RD0544_02_s_2013_30				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	3.53	Rating **	M	Issue No.	36
LM End	3.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819576 °	37.819530 °
				-121.364056 °	-121.364653 °
DWR ID	DWR_RD0544_02_s _ 2012_36				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Cactus on landside slope.					

Photo 1 of 2 : richard_s_20140320_368.jpg



Looking southwest at overgrown cactus on landside slope.

LM Start	3.53	Rating **	M	Issue No.	36 (cont)
LM End	3.56	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : richard_s_20140320_369.jpg



Looking north at cactus on landside slope and toe.

LM Start	3.57	Rating **	M	Issue No.	19
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees				
DWR ID	DWR_RD0544_02_f _ 2013_19				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	3.61	Rating **	M	Issue No.	47
LM End	4.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819443 °	37.822442 °
				-121.365305 °	-121.374608 °
DWR ID	DWR_RD0544_02_s _ 2012_47				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	3.64	Rating **	A/W	Issue No.	48
LM End	4.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819408 °	37.822442 °
				-121.366005 °	-121.374607 °
DWR ID	DWR_RD0544_02_s _ 2012_48				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/10/2014 04/10/2014	Richard Willoughby

LM Start	4.03	Rating **	M	Issue No.	46
LM End	4.03	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821700 °	37.821700 °
				-121.371751 °	-121.371751 °
DWR ID	DWR_RD0544_02_s_2014_46				
Action/Comments					
Inspector Comments: FS_ID:24304					
EP_NO: 16357					
Repair Type:					
Crossing Status:					
UCIP Comments: - pipe 3 ft below the crown. Pit and holes on the pipe and the levee. no vent pipe found on waterside. No concrete vent pipe found at the landside toe. was working during the field inspection.					
FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.0 feet below the crown. Open on waterside end. O&M Manual SJR 7, April 1964.					
FS Date: 11/19/2013					

Photo 1 of 1 : UCIP_4097.jpg



LS view: pump on concrete sump and service pole off the levee toe.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---